

# Ecological and Cultural Resources and Wind Energy

WIndiana 2010



- Ecological Consulting • Native Plant Nursery •
- Restoration Services • Cultural Resource Management •



# JFNew Overview

## Mission

Provide the highest quality environmental services to our clients while positively impacting the lives of our employees and the conservation of natural resources through prosperity and stewardship.

## Services

Ecological Site Assessments  
Cultural Resource Management  
Design  
Permitting  
Native Plant and Seed Supply  
Restoration Implementation  
Maintenance and Monitoring

## Locations



# Ecological and Cultural Resources and Wind

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- Wetlands and Streams
- Cultural Resources
- Wildlife

# Wetlands and Streams

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State and Federal Permit Requirements

Federal – Clean Water Act - navigable waters and non-isolated wetlands

State – Clean Water Act Section 401 and Indiana Isolated Wetland Law

Summary:

Not a big issue for wind energy

Time required for delineation, planning, and permitting

Lot of opportunity for avoidance and minimization

Mitigation if needed



# Cultural Resources

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State and Federal Permit Requirements

Federal - The National Historic Preservation Act – Section 106

State and local regulations - Indiana Administrative Code 14-21-1

Archeological Resources

Historical Properties

Summary:

Not a big issue for Wind Energy

Phase 1 surveys needed

Timing and planning critical for schedule

Lot of opportunity for avoidance



# Wildlife

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## Wildlife Impacts are a significant issue for Wind Energy

Some main species of concern and impact:

- Indiana Bat
- Eagles and Hawks
- Whooping Crane
- Prairie Chicken
- Sage Grouse

What is being done?

- Pre Siting surveys
- Avoidance
- Mitigation
- Post Construction Mortality Monitoring
- Research



# Indiana Bat

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Critical issue for wind development in Indiana

Planning and pre-construction surveys – mist netting and radar

Mitigation options

USFWS habitat conservation plan













**Direct Additional Questions to:**

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